CONTENTS

Tectonophysics Volume 195

Research Papers

Early Proterozoic collision tectonics, and rapikivi granites as intrusions in an extensional thrust-thickened crust: the Ketilidian orogen, South Greenland
Windley, F. (Leicester, U.K.) 1

Deformation and recrystallization mechanisms in naturally deformed omphacites from the Sesia–Lanzo zone; geophysical consequences
Buatier, M. (Strasbourg, France), Van Roermund, H.L.M. (Lyon, France), Drury, M.R. (Canberra, A.C.T., Australia) and Lardeaux, J.M. (Lyon, France) 11

Tertiary evolution of the Sivas Basin, central Turkey
Cater, J.M.L. (Reading, U.K.), Hanna, S.S. (Oman), Ries, A.C. (Reading, U.K.) and Turner, P. (Birmingham, U.K.) . 29

Periodicity in the accretion process on the Southeast Indian Ridge at 27°40′S
Sauter, D., Whitechurch, H., Munschy, M. and Humler, E. (Strasbourg, France) 47

Petrology of serpentine sandstone as a key to tectonic development of serpentine belts
Arai, S. (Kanazawa, Japan) and Okada, H. (Fukuoka, Japan) 65

Three-dimensional *Q* structure beneath the Kanto–Tokai district, Japan
Sekiguchi, S. (Ibaraki, Japan) 83

Special Issue: The European Geotraverse, Part 7 (edited by R. Freeman, M. Huch and St. Mueller)

Preface iii

Research Papers

Crustal structure of the Fennoscandian Shield. A traveltime interpretation of the long-range FENNOLORA seismic refraction profile
Guggisberg, B. (Zürich, Switzerland), Kaminski, W. and Prodehl, C. (Karlsruhe, F.R.G) 105

Deep structure of Fennoscandia from fundamental and higher mode dispersion of Rayleigh waves
Calcagnile, G. (Bari, Italy) 139

Catalogue of palaeomagnetic directions and poles from Fennoscandia: Archaean to Tertiary
Pesonen, L.J. (Espoo, Finland), Bylund, G. (Lund, Sweden), Torsvik, T.H. (Oxford, U.K.), Elming, S.-A. (Lulea, Sweden) and Mertanen, S. (Espoo, Finland) 151

Deep crustal seismic reflection profiling across two major tectonic zones in southern Sweden
Dahl-Jensen, T., Dyrelius, D. and Palm, H. (Uppsala, Sweden) 209

Crustal temperatures along the Central Segment of the European Geotraverse
Cermák, V. (Prague, Czechoslovakia), Bodri, L. (Budapest, Hungary), Schulz, R. (Hannover, F.R.G) and Tanner, B. (Kiel, F.R.G) 241

Magnetic anomaly pattern of Central Europe
Bosum, W. and Wonik, T. (Hannover, F.R.G) 253

Crustal fracturing and intraplate tectonics in the area between the North Sea and the Alps: A comparison of Landsat-derived fractures with existing map data
Kronberg, P. (Claustal-Zellerfeld, F.R.G) 261

Crustal xenoliths from Cenozoic volcanic fields of West Germany: Implications for structure and composition of the continental crust
Mengel, K. (Göttingen, F.R.G), Sachs, P.M. (Stuttgart, F.R.G), Stosch, H.G. (Köln, F.R.G), Wörner, G. (Mainz, F.R.G) and Loock, G. (Köln, F.R.G) 271

Neotectonics and geomorphology in the Rhenish Massif and the Hessian Basin
Semmel, A. (Frankfurt, F.R.G) 291

Spectral matrix filtering applied to explosion seismology data: Examples from the Western Alps
Nicollin, F. (Saint Martin d'Hères, France) 299

Upper mantle properties of the Tuscan–Tyrrhenian area: A framework for its recent tectonic evolution
Della Vedova, B., Marson, I., Panza, G.F. and Suhadolc, P. (Trieste, Italy) 311

Genesis of a Variscan batholith: Field, petrological and mineralogical evidence from the Corsica–Sardinia batholith
Rossi, P. and Cocherie, A. (Orleans, France) 319

Aeromagnetic constraints on the geostructural interpretation of the southern part of the Sardinian Rift, Italy
Balia, R., Fais, S. (Cagliari, Italy), Klingelé, E. (Zürich, Switzerland), Marson, I. (Trieste, Italy) and Porcu, A. (Cagliari, Italy) 347

Structures and tectonics of Tunisia
Burollet, P.F. (L'Isle Adam, France) 359
The post-Triassic sedimentary cover of Tunisia: Seismic sequences and structure
Bobier, C., Viguier, C. (Talence, France), Chaari, A. and Chine, A. (Tunis, Tunisia) 371
Ionian Basin and Calabria Arc: Some new elements from DSS data
Ferrucci, F. (Paris, France), Gaudiosi, G. (Rome, Italy), Hirn, A. (Paris, France) and Nicolich, R. (Naples, Italy) ... 411
Some structural features of the Alpine lithospheric root
Viel, L., Berckhemer, H. (Frankfurt am Main, F.R.G) and Mueller, St. (Zürich, Switzerland) 421
The EGT Bouguer gravity compilation
Klingelé, E. (Zürich, Switzerland), Lahmeyer, B. (Hannover, F.R.G) and Freeman, R. (Zürich, Switzerland) 437

Discussion
Glacial isostasy and long-term crustal movements in Fennoscandia with respect to lithospheric and asthenospheric processes and properties
–Comment
Wolf, D. (Münster, F.R.G) 443
–Reply
Mörner, N.-A. (Stockholm, Sweden) 445